

Notice of Allowability

Application No.

09/878,948

Applicant(s)

ABBOTT ET AL.

Examiner

Tadesse Hailu

Art Unit

2173

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment entered on August 15, 2005.
2. ☒ The allowed claim(s) is/are 62-71, 82-92, 137-150, 157-205 and 208-293.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 8/15/05
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☐ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other _____

Examiner's Statement of Reasons for Allowance

1. This Examiner's Statement of Reasons for Allowance is in response to the Amendment submitted/entered on August 15, 2005.

All the pending claims 62-71, 82-92, 137-150, 157-205, and 208-293 are allowed and are patentable over Bates and Schmidt, the cited prior art references. Bates and Schmidt describe a framework at a middleware level between the environment and application that integrates the location-awareness and mobile objects into a mobile application support framework. The system allows application to monitor the locations of users. Bates and Schmidt describes a location-awareness system, and a location-aware mobile agent system (lightweight moveable media object), the system detects user movements and respond by moving to the user's nearest computer or taking other action. Bates and Schmidt also describe a trading technology (broker) that can be adapted for naming and locating mobile objects.

But none of the cited art teaches the required limitation of claim 62, that is, "monitoring information related to the at least one context attributes for an indication of an occurrence of the specified event, the monitoring including obtaining multiple values for one of the at least one context attributes and mediating the obtained multiple values to determine a mediated value for that one context attribute, and when the monitoring detects an indication of the occurrence of the specified event based at least in part on the mediated value, notifying the first client of the occurrence," and claims 70 and 71 recite similar language.

Bates and Schmidt further fails to teach the limitations of claim 199, that is, "a first module configured to, when executed in memory for each of the executing state server modules, receive values sent from the state server module for at least one of the state attributes, and configured to send at least some of the received state attribute values to at least some of the state client modules; a second module configured to, when executed in memory for each of multiple of the executing state client modules, receive a notification request from the state client module for a specified type of event such that the state client module requests to be notified when the specified type of event occurs; and an intermediary module configured to, when executed in memory for each of the notification requests, monitor occurrences of events in order to detect an occurrence of the type of event specified for that notification request; and when an occurrence of the type of event specified for that notification request is detected, notify the state client module for the notification request of the occurrence." Claims 82 and 198 also recite similar language.

Bates and Schmidt further fails to teach the limitations of claim 137, that is, "generating one or more modeled values for one or more state attributes at a higher level of abstraction than the specified state attributes, the generated modeled values based at least in part on the received values of the specified state attributes; after the receiving of the indication of the location, detecting satisfaction of the indicated condition based at least in part on the generated modeled values of the state attributes at the higher level of abstraction". Claims 247 and 261 also recite similar language.

Bates and Schmidt further fails to teach the limitations of claim 200, that is, "receiving from a first client an indication of an interest in receiving notification when a specified event that is related to one or more values of at least one of the state attributes occurs; retrieving indications of cached values for one or more of the at least one state attributes; when it is determined from the retrieved indications that the cached values do not reflect an occurrence of the specified event, obtaining additional values for one or more of the at least one state attributes from one or more servers; and when it is determined that the obtained additional values do reflect an occurrence of the specified event, notifying the first client of the occurrence." Claims 269 and 278 also recite similar language.

Bates and Schmidt further fails to teach the limitations of claim 203, that is, "receiving from a first client an indication of an interest in receiving notification when a first specified event that is related to at least one of the state attributes occurs; after the receiving of the indication of the interest in receiving notification when the first specified event occurs, receiving one or more indications from one or more servers that reflect an ability of each of those servers to supply values for one or more additional state attributes whose values were not previously available; after the receiving of an indication from one of the servers that reflects the ability of that one server to supply values for one of the additional state attributes, receiving from a second client an indication of an interest in receiving notification when a second specified event occurs that is related at least in part to that one additional state attribute; and when an occurrence of the second specified event is detected based at least in part on a value of

the one additional state attribute, notifying the second client of the occurrence." Claims 282 and 288 also recite similar language.

Thus, prior art neither renders obvious nor anticipates the combination of claimed elements in light of the specification. Accordingly, all pending claims 62-71, 82-92, 137-150, 157-205, and 208-293 are allowed.

2. comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

3. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Tadesse Hailu, whose telephone number is (571) 272-4051. The Examiner can normally be reached on M-F from 10:30 – 7:00 ET. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, John Cabeca, can be reached at (571) 272-4048 Art Unit 2173.

4. An inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Patent Examiner Tadesse Hailu
Art Unit 2173
9/21/05

